INDUSTRIE

Installation Manual

RADIOVIDEOGRAPHY SENSOR

RX2 *HP*

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1. CSN IMAGE INSTALLATION with WINDOWS XP

First, insert the CD, provided with the radio video X-Ray system, in your computer CD Unit, wait for a moment and the installation menu will automatically start. This menu allows installing the CSN Image® Software.

Pic. 1

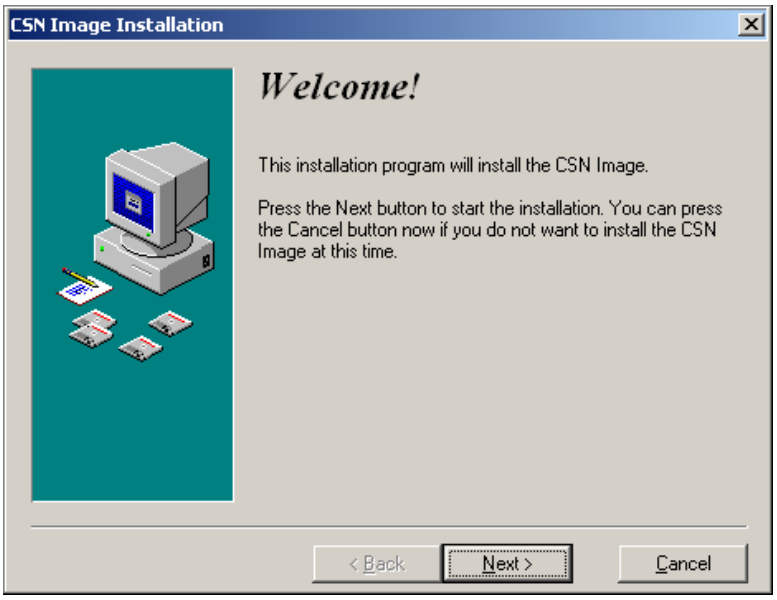
Select **"Program Installation"** from this menu; after that the program will show you the right code for the installation.

Inserire il codice
Install
Cancel
Installation Code:
ZDTHM-56-G
Get Generic Code
If you don't have the installation code you can call the help desk at +39 011 6056962 or send an email to support@archimed.org

Pic. 2

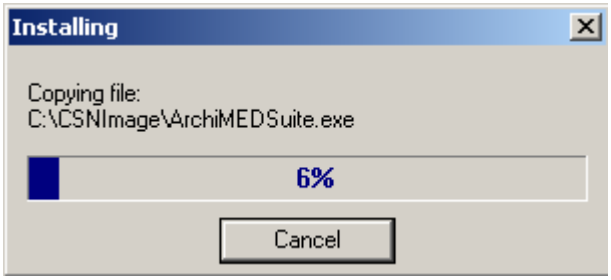
Click **"Install"** to proceed.

Click on "**Next**" from the new window to start the installation procedure of CSN Image.


CSN Image Installation
Welcome!
This installation program will install the CSN Image.
Press the Next button to start the installation. You can press the Cancel button now if you do not want to install the CSN Image at this time.
< Back
Next >
Cancel

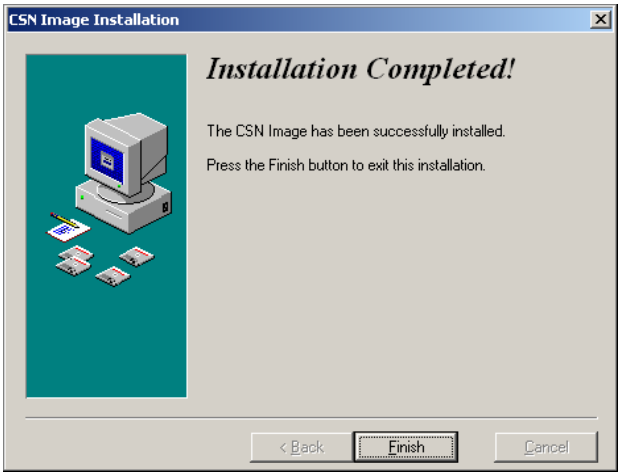
Pic. 3

During the software loading, a band of increments appears, indicating the installation state.



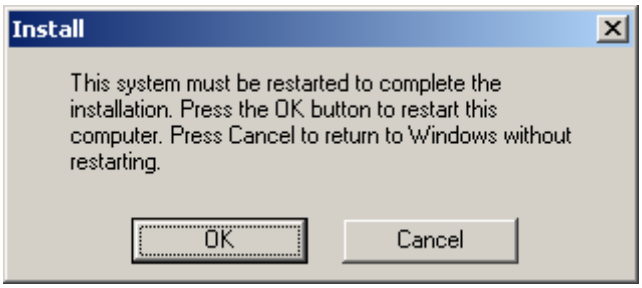
Pic. 4

Once the installation has been completed, a new window confirms the end of the software installation. Click on "**Finish**".



Pic. 5

Now the computer could ask you to restart the operating system. In this case, click on "**OK**" to finish the software installation.


Install
This system must be restarted to complete the installation. Press the OK button to restart this computer. Press Cancel to return to Windows without restarting.
OK
Cancel

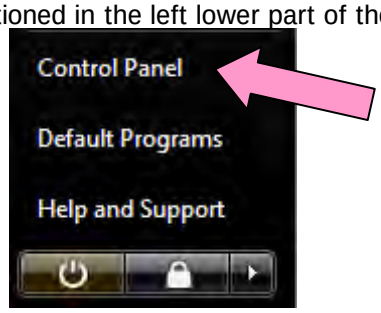
Pic. 6

Otherwise, the main installation menu will automatically appear, click on "**Finish"** to return to the windows desktop. The program is now installed and ready for the configuration and use.

2. CSN IMAGE INSTALLATION with WINDOWS VISTA

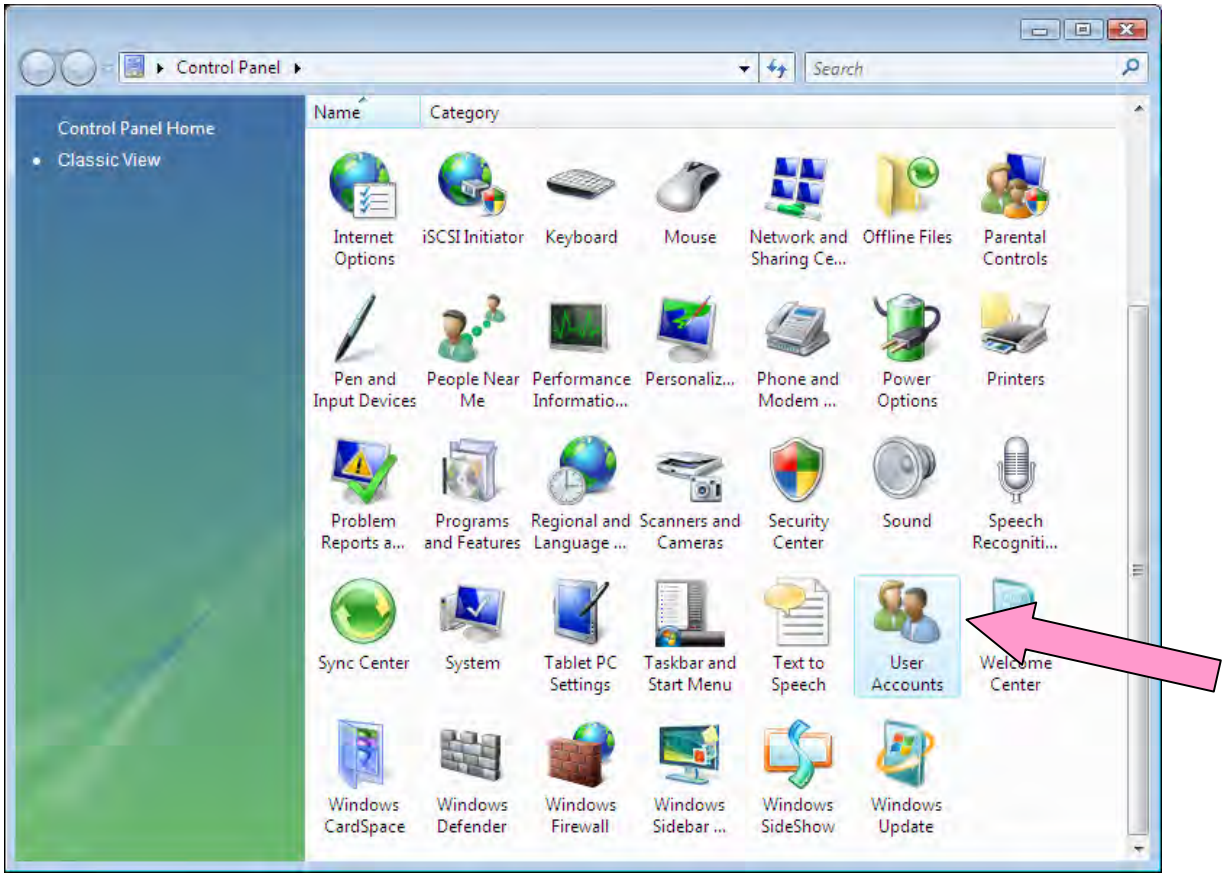
To install the software with Windows Vista, first of all disable the User account system control.

From "**Start"** menu (vista logo is positioned in the left lower part of the toll bar) select "**Control Panel"**.



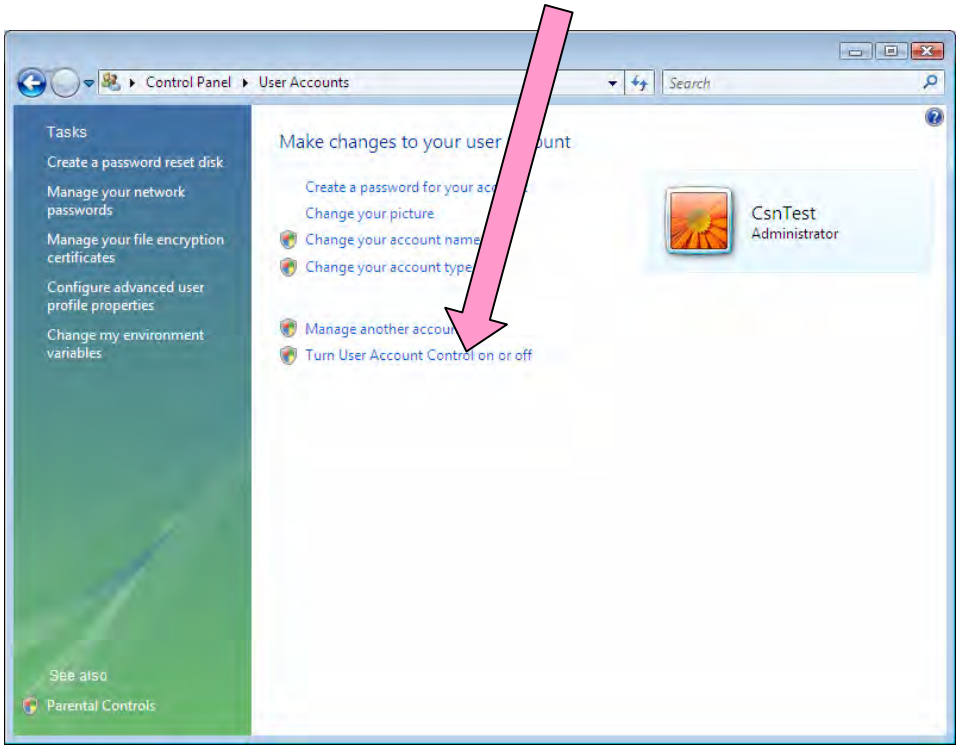
Pic. 7

Now from Control Panel window, select "**User Accounts"**.



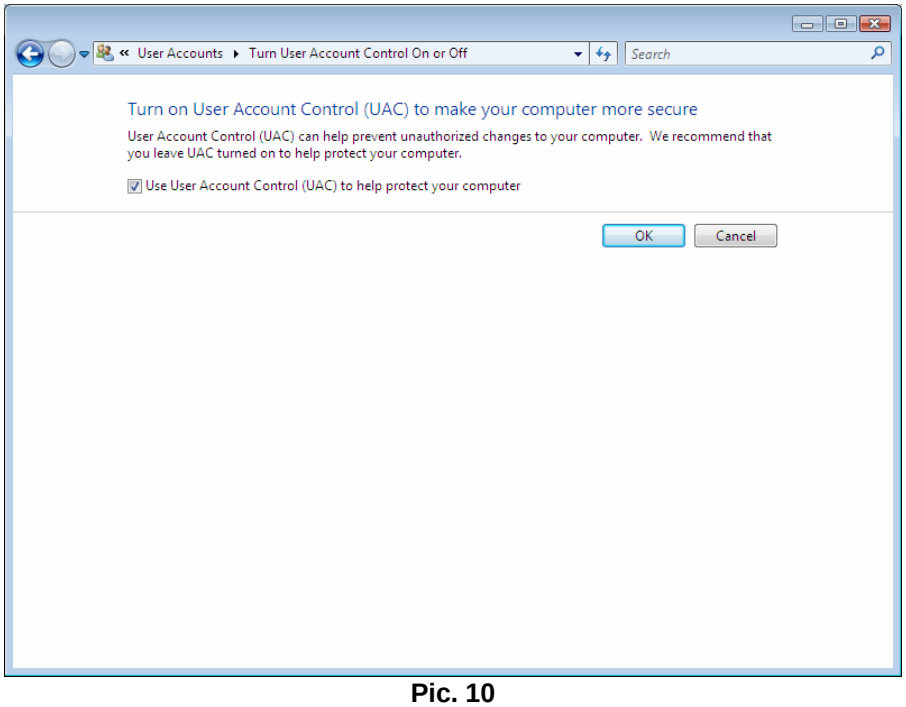
Pic. 8

Now select your user account, then click on "**Turn User Account Control on or off"**.



Pic. 9

Unselect "**Use User account Control (UAC) to help protect your computer**", then click on "**OK"**.


« User Accounts ▸ Turn User Account Control On or Off
Search
Turn on User Account Control (UAC) to make your computer more secure
User Account Control (UAC) can help prevent unauthorized changes to your computer. We recommend that you leave UAC turned on to help protect your computer.
Use User Account Control (UAC) to help protect your computer
OK
Cancel

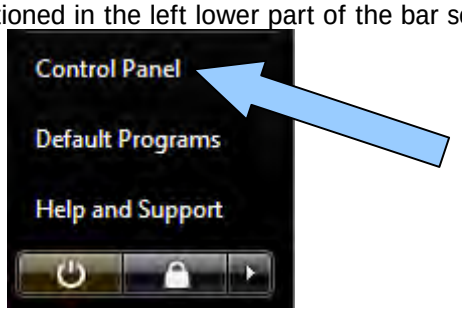
Pic. 10

Now restart your Operative system, and proceed with the CSN Image® software installation, following the instructions in previous chapter (1).

3. CSN IMAGE INSTALLATION WINDOWS 7 - 32 or 64 bit

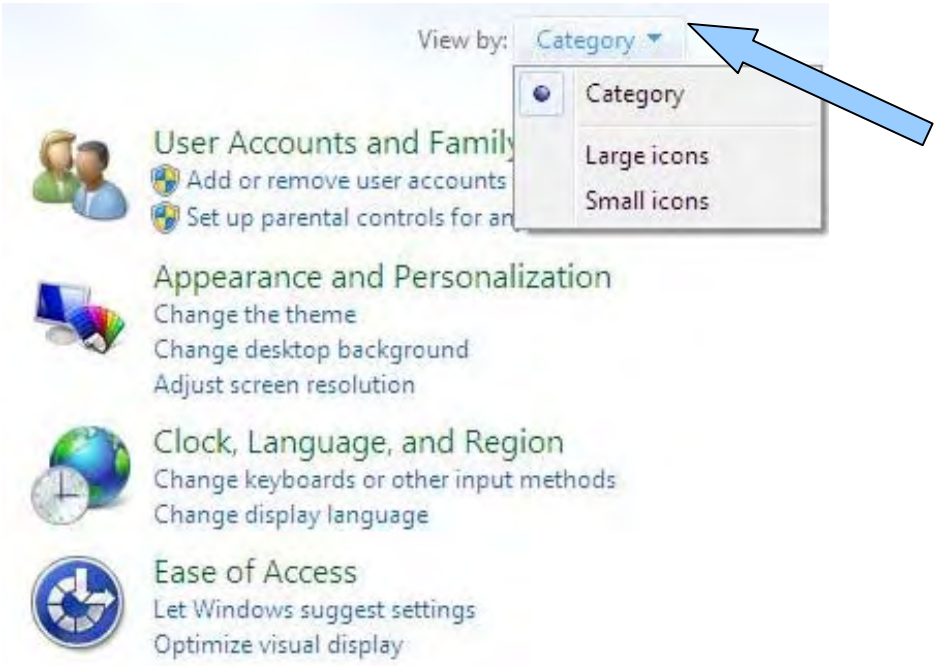
To install the software with Windows 7 first of all disable the User account system control.

From **Start** menu (logo of 7 is positioned in the left lower part of the bar select "**Control Panel"**.



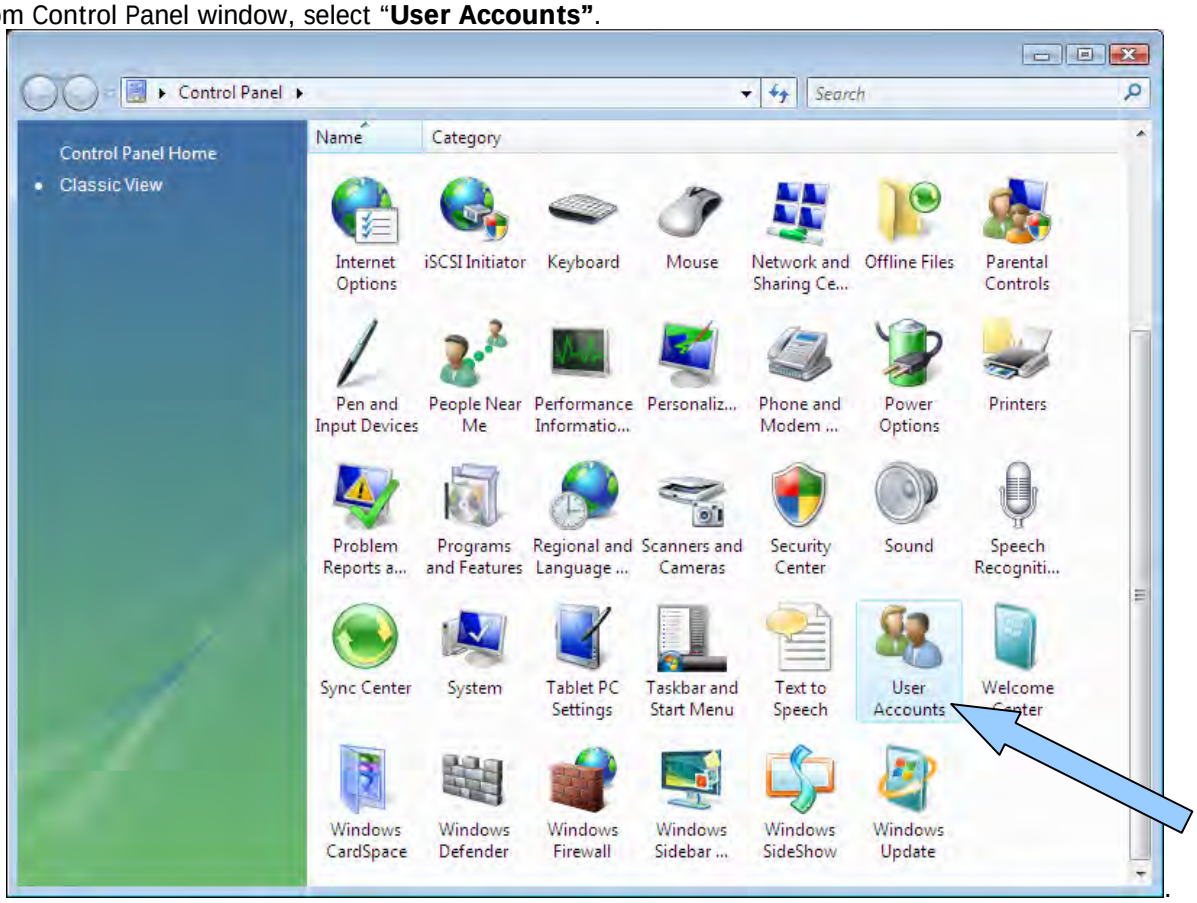
Pic. 11

Then choose "Display **small icones** "



Pic. 12

Now from Control Panel window, select “**User Accounts”**.

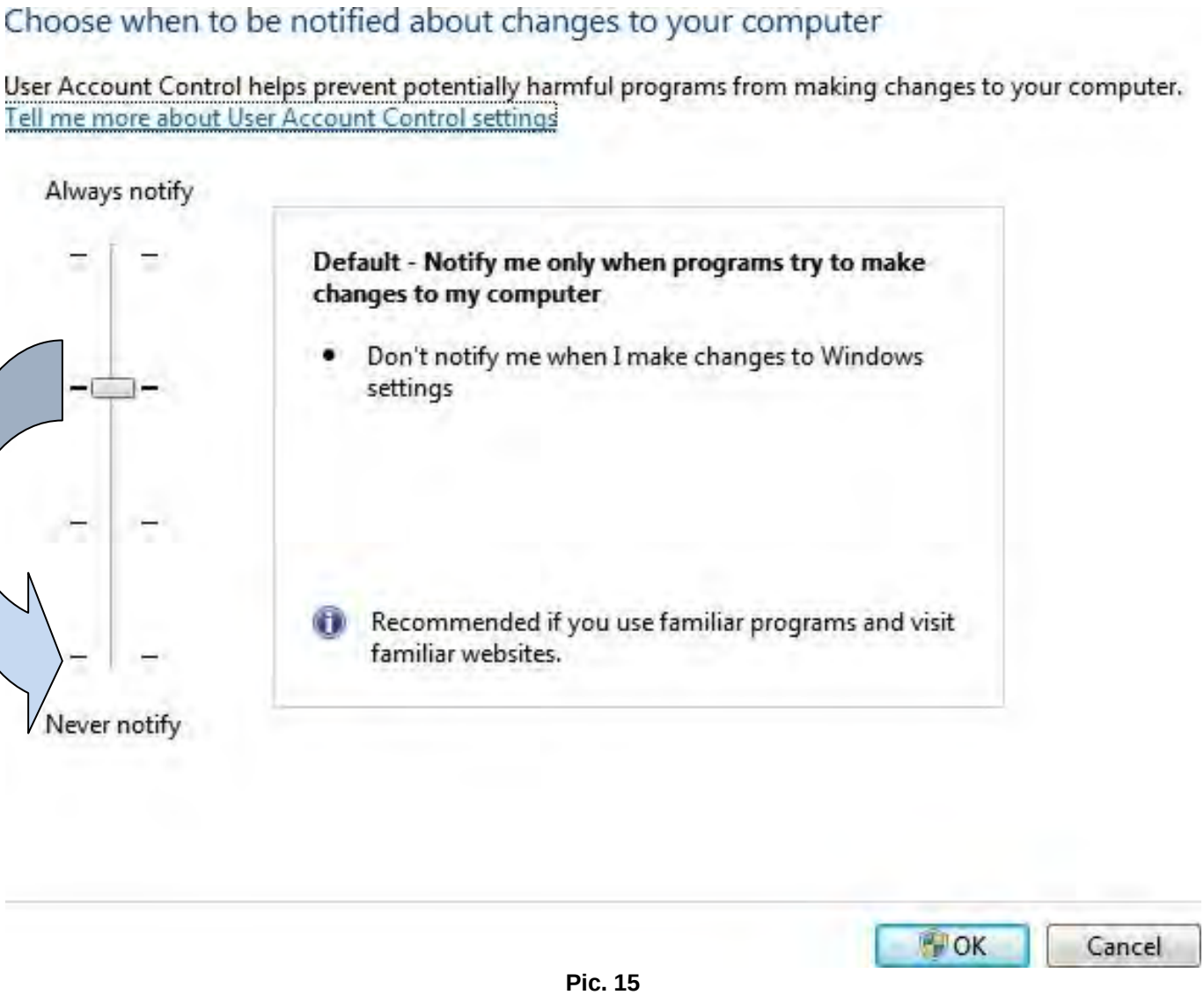


Pic. 13

Now select the new user account you created and click on the left bar “**Change User Account Control Setting**”.

Pic. 14

Now move the cursor down to the end where you see "**Do not ever notify**" and then press **Ok**.


Choose when to be notified about changes to your computer
User Account Control helps prevent potentially harmful programs from making changes to your computer.
Tell me more about User Account Control settings
Always notify
Never notify
Default - Notify me only when programs try to make changes to my computer
Don't notify me when I make changes to Windows settings
Recommended if you use familiar programs and visit familiar websites.
OK
Cancel

Pic. 15

Now restart your Operative system, and proceed with the CSN Image® software installation, following the instructions in previous chapter (1).

4. RX2 HP HARDWARE INSTALLATION

The RX2 *HP* radio video X-Ray system consists of three parts: the sensor, the USB box and the USB cable.

Pic. 16

Sensor

Pic. 17

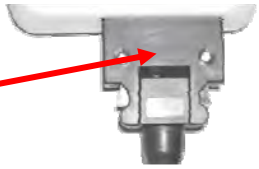
USB Box

Pic. 18 USB cable

Pic. 19 USB cable

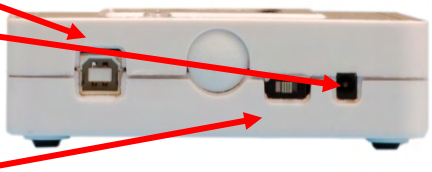
First of all, it is necessary to connect all the components.

Connect the sensor to the USB Box;



Pic. 20

- Connect the USB cable;
- In case the pc is not equipped with USB port 2.0 or if the USB ports should not supply enough current, the sensor should be used with the power supply.
- When you connect the power supply, the switch should not be moved towards the internal part of USB box but towards the external one.



Pic. 21

Then, connect the USB cable to your computer USB port;

Pic. 22

5. RX2 HP HARDWARE INSTALLATION with WINDOWS XP

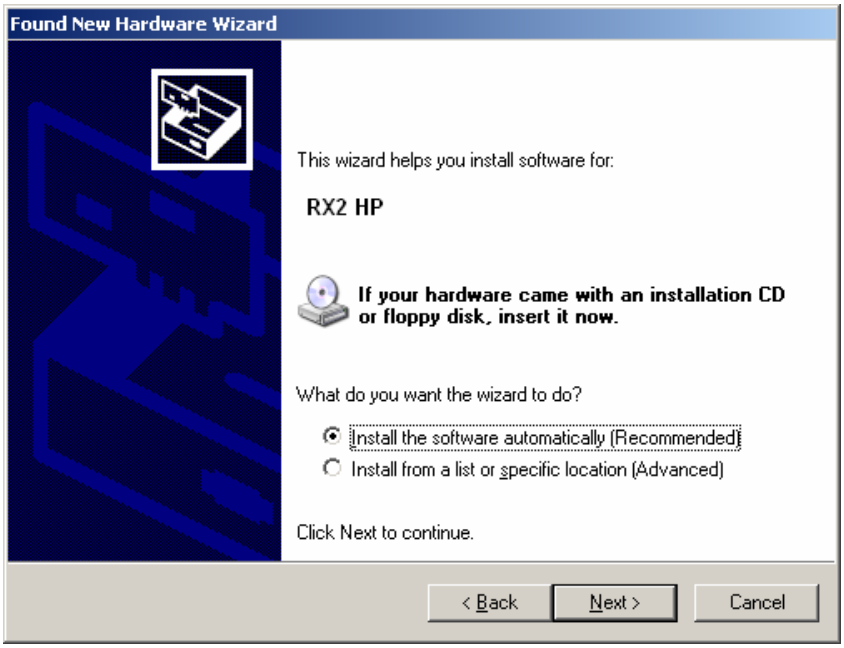
(Some windows may be different if you use a PC or a laptop)

Connecting the USB cable to your computer (obviously the computer must be on and with the Operative System already loaded) the wizard installation for a new hardware will appear. The computer needs a driver.
Insert the program CD ROM into the player or let it in if you haven't take it off.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

Pic. 23

On this window select the third voice "**No, not this time**" and Click on "**Next**".


Found New Hardware Wizard
This wizard helps you install software for:
RX2 HP
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

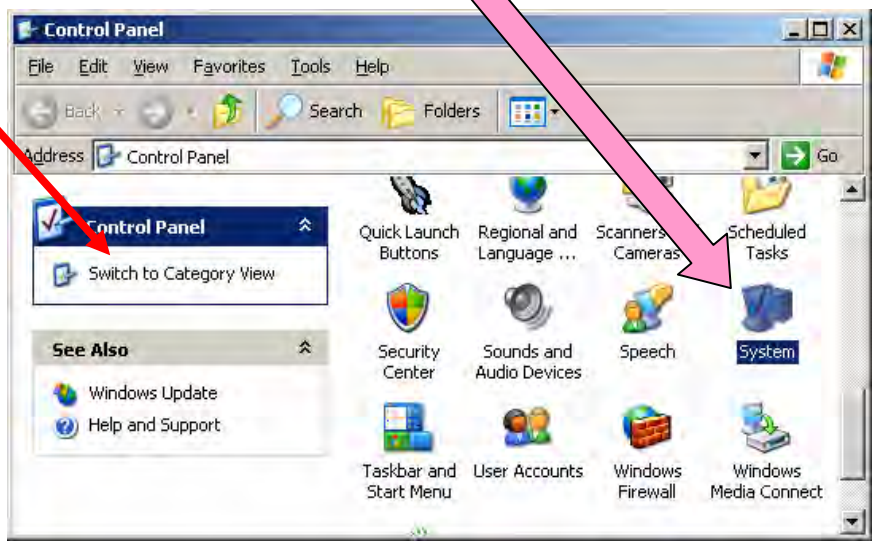
Pic. 24

Now select the first voice "**Install the software automatically**" and now click on "**Next**".
At the installation end, a window confirming the correct loading will appear. Click on "**Finish"** to definitely finish the procedure.

Pic. 25

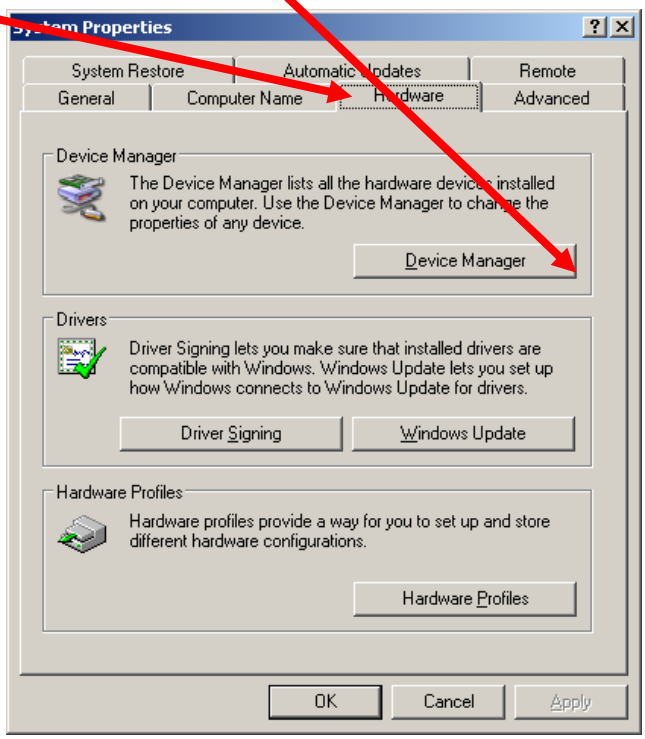
Clicking on the **"Start"** button, activate **Panel Control**, then select **System**. *If the item doesn't appear click on* ***Switch to Category*** **View**

Pic. 26



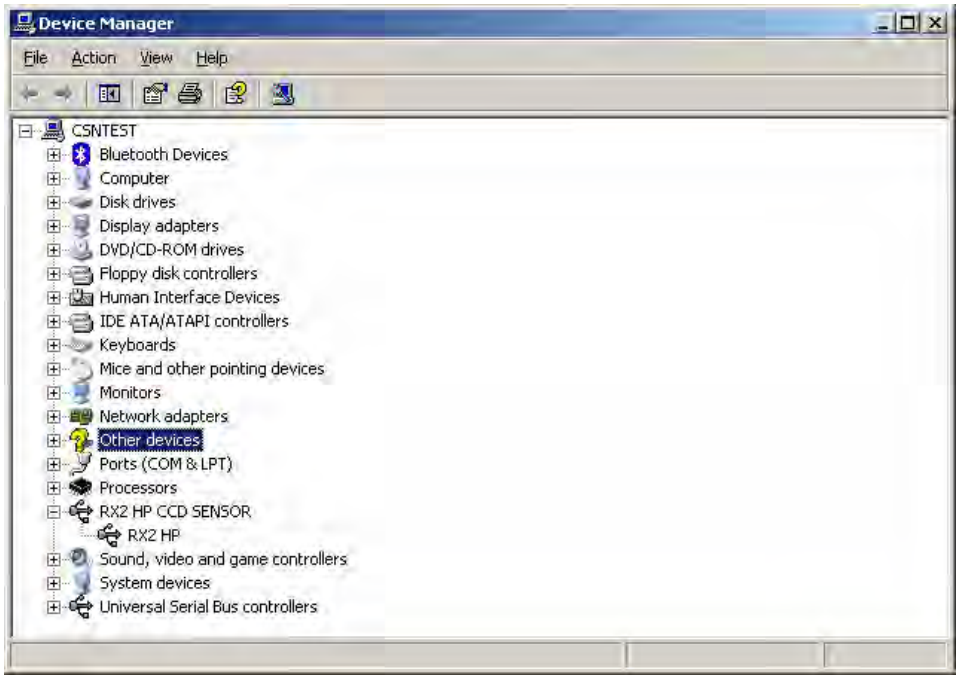
Pic. 27

Now select **Hardware** and then **Device Manager**


System Properties
System Restore
Automatic Updates
Remote
General
Computer Name
Hardware
Advanced
Device Manager
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
Device Manager
Drivers
Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.
Driver Signing
Windows Update
Hardware Profiles
Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles
OK
Cancel
Apply

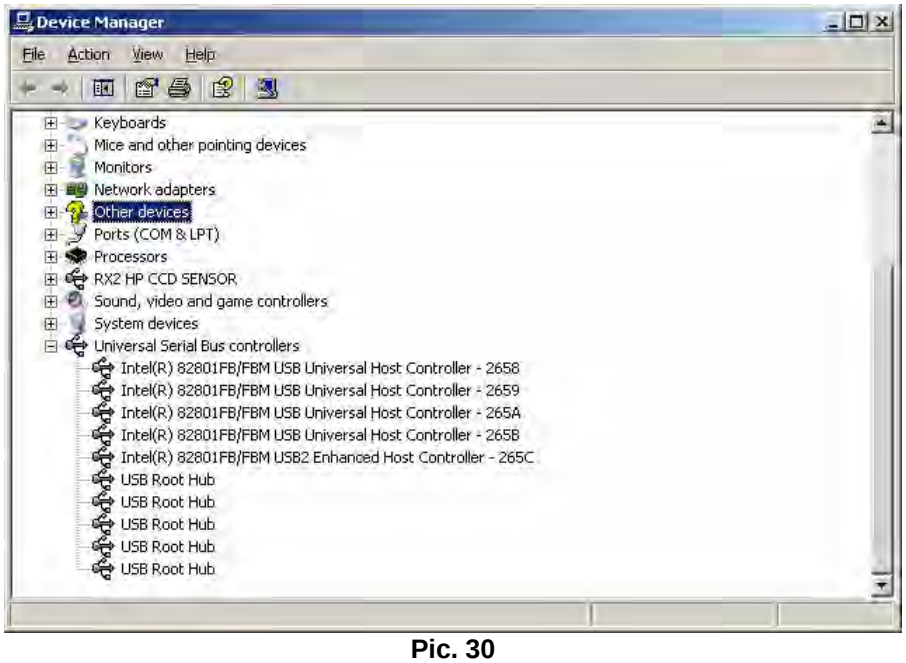
Pic. 28

A new window with a new category named **RX2 HP CCD SENSOR** will appear.
Click on the "**+**" on the left of the item, then **RX2 HP** will appear below it (if the item is put in evidence by a yellow question mark, the driver is not correctly loaded, install it again, following the "Sensor Installation Manual").
Double click on the item in order to open the peripheric properties.



Pic. 29

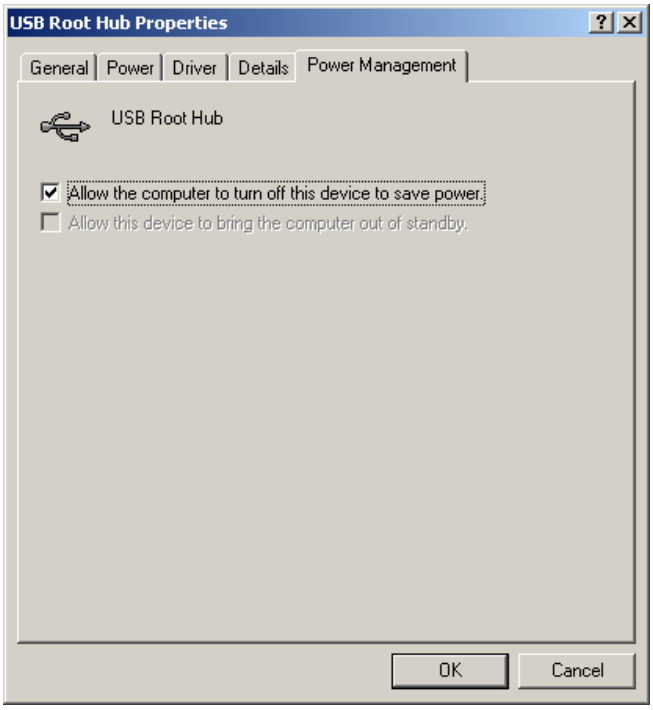
From the same menu, select the "+" to the left of the item **Universal Serial Bus controller and a** new item will appear.


Device Manager
File Action View Help
Keyboards
Mice and other pointing devices
Monitors
Network adapters
Other devices
Ports (COM & LPT)
Processors
RX2 HP CCD SENSOR
Sound, video and game controllers
System devices
Universal Serial Bus controllers
Intel(R) 82801FB/FBM USB Universal Host Controller - 2658
Intel(R) 82801FB/FBM USB Universal Host Controller - 2659
Intel(R) 82801FB/FBM USB Universal Host Controller - 265A
Intel(R) 82801FB/FBM USB Universal Host Controller - 265B
Intel(R) 82801FB/FBM USB2 Enhanced Host Controller - 265C
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub

Pic. 30

Now the Hub USB and the trademark of the USB ports are displayed.
With reference to the trademarks of the USB ports, the certified ones for a proper operation of the sensor without the power supply device are the Intel and Via Tech, maybe the sensor must be used connected to the power supply device.

Among the items, the item **USB Root Hub** will appear several times, double click on that item and deselect **Allow the computer to turn off this device to save power**, then click on **OK**.
This operation must be repeated for all the **USB Root Hub** items.

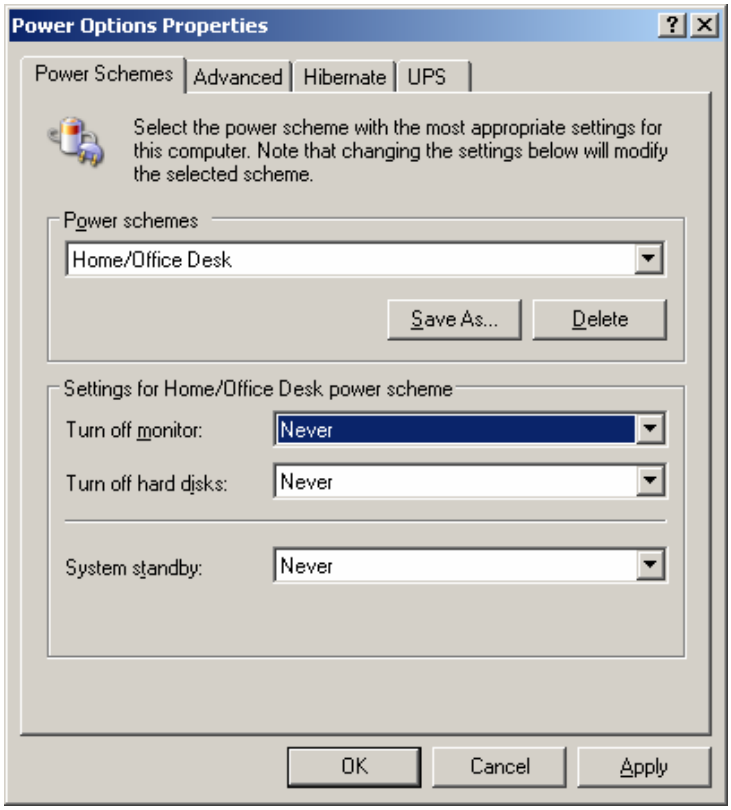


Pic. 31

Now close all the opened windows and go back to the "**Panel control"**. Select "**Power Options"**.

Pic. 32

In the following window, in all the fields select **Never**, then click on **OK** (this window may be different if you use a PC or a laptop).



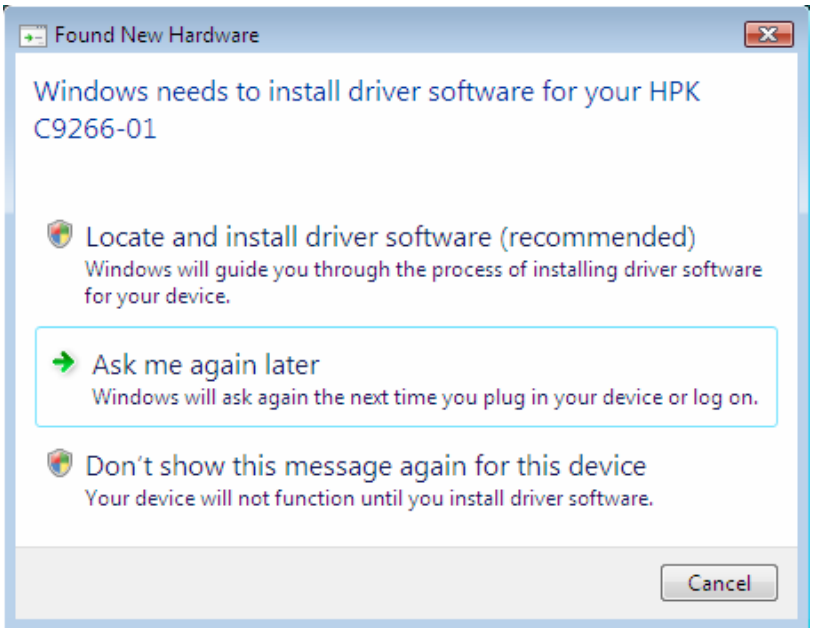
Pic. 33

The operative system configuration for the correct sensor operation now is completed.

6. RX2 HP HARDWARE INSTALLATION with WINDOWS VISTA

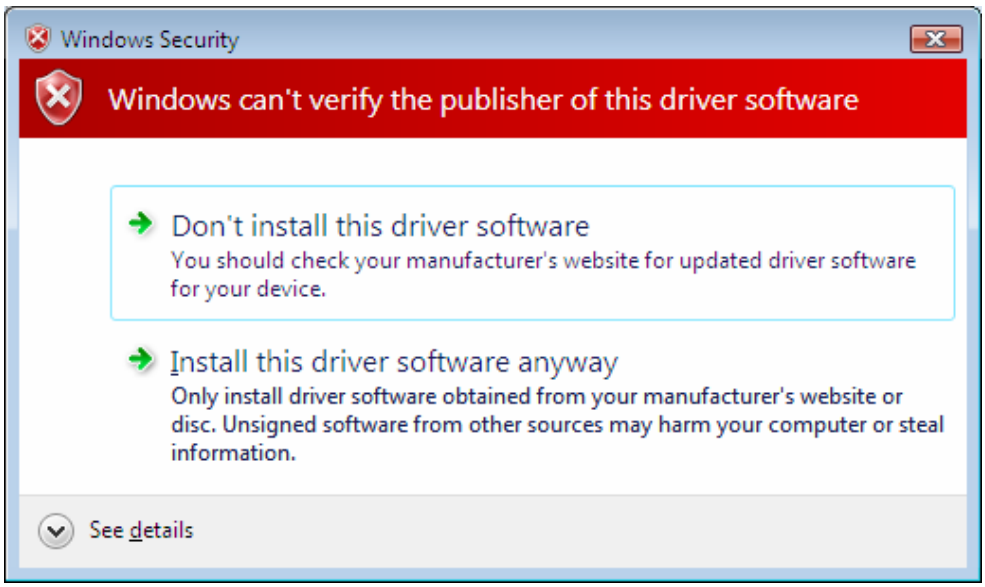
(Some windows may be different if you use a PC or a laptop)

Connecting the USB cable to the computer (the computer must be turned on) a window informs you a new hardware has been connected. This new hardware needs a driver.
Insert the CD-Rom in your CD player.
Choose the first voice "**Locate and install driver software**" and please wait a moment.


Found New Hardware
Windows needs to install driver software for your HPK C9266-01
Locate and install driver software (recommended)
Windows will guide you through the process of installing driver software for your device.
Ask me again later
Windows will ask again the next time you plug in your device or log on.
Don't show this message again for this device
Your device will not function until you install driver software.
Cancel

Pic. 34

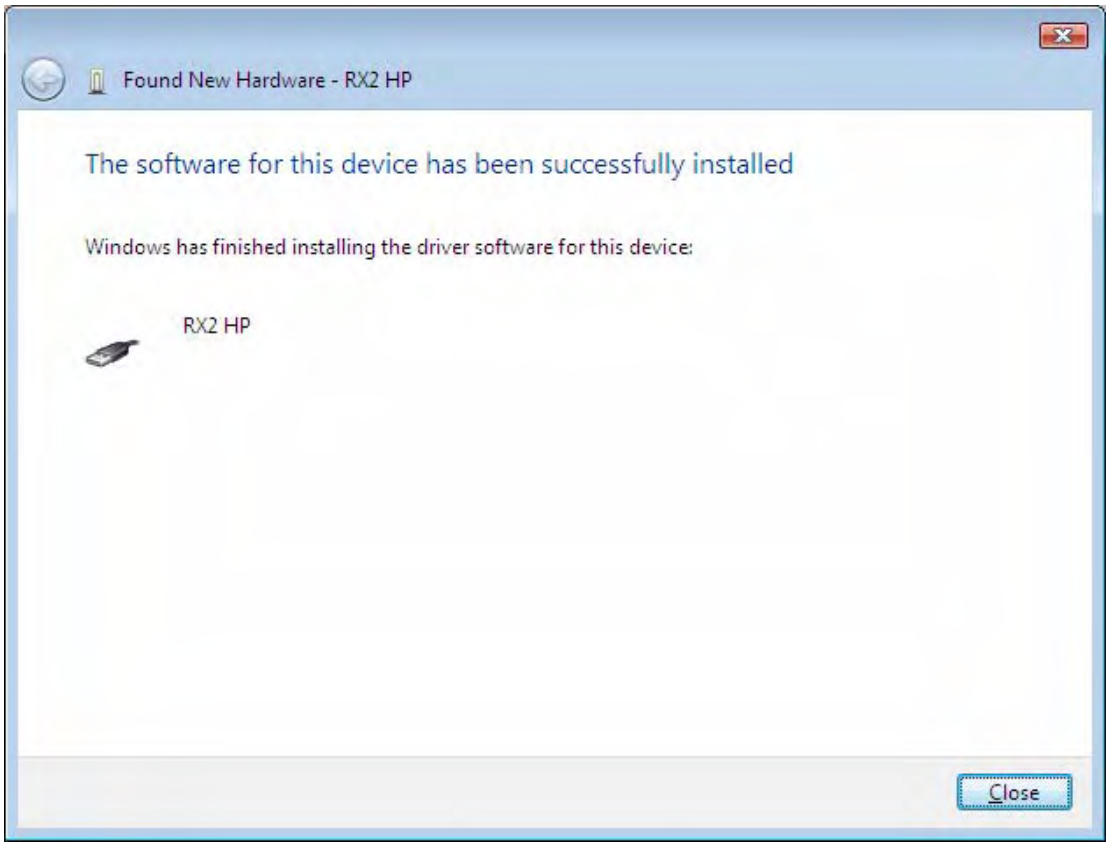
When the Operative System found the Sensor, a window will appear informing you the Driver is not certificated.
Select the "**Install this driver software anyway**" function.


Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
See details

Pic. 35

When the procedure has finished a window informing you the functioning of the sensor is correct will appear.

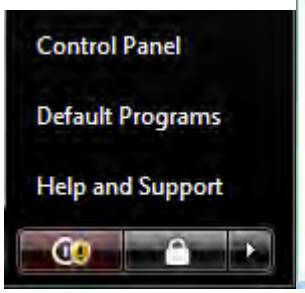
Click on "**Close**" button to ultimate the procedure.


Found New Hardware - RX2 HP
The software for this device has been successfully installed
Windows has finished installing the driver software for this device:
RX2 HP
Close

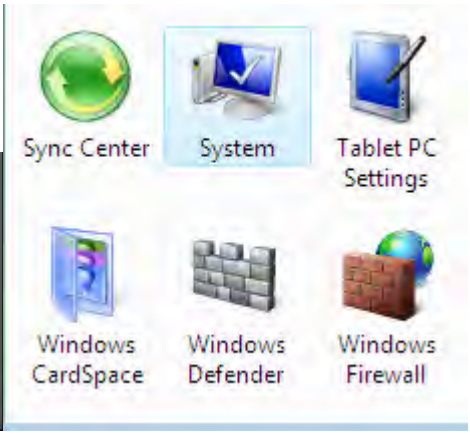
Pic. 36

Now you must configurate your Operative System to optimize the Sensor RX2HP functioning.

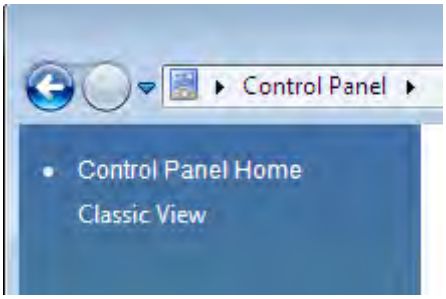
Clicking on "**Start**" button, activate the function "**Control panel**" then click on "**System**". *If the item doesn't appear click on* ***Switch to Category*** **View)**



Pic. 37

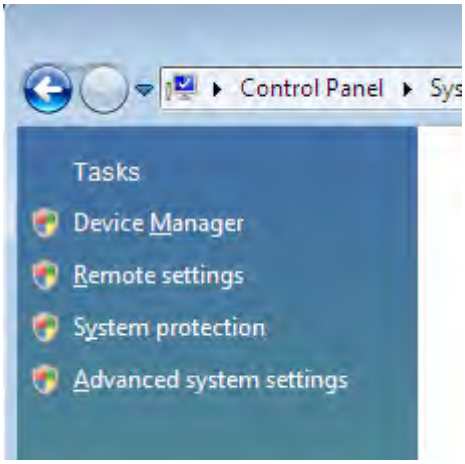


Pic. 37a



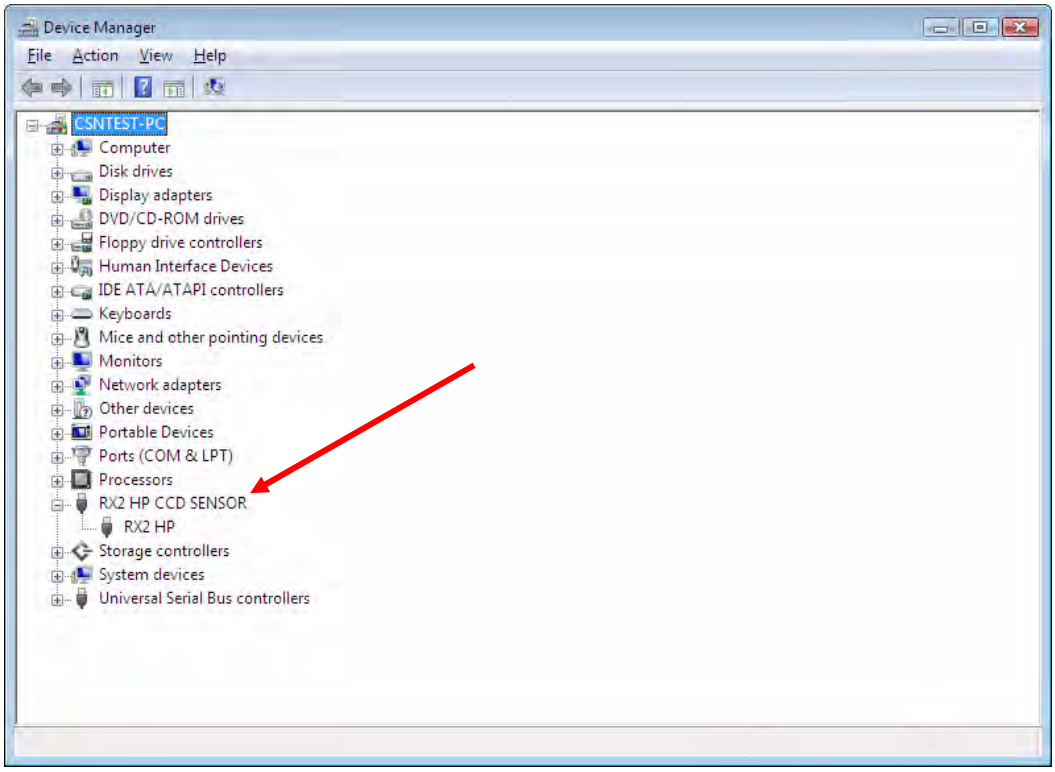
Pic. 37b

After selecting "**System**", please select "**Device manager**".



Pic. 38

Now a new window with a new category named **RX2 HP CCD SENSOR** will appear.
Click on the "**+**" on the left of that item, then RX2 HP will appear below it (if the item is put in evidence by a yellow question mark, the driver is not correctly loaded, install it again following the sensor Installation manual).
Double click on the item in order to open the device properties.



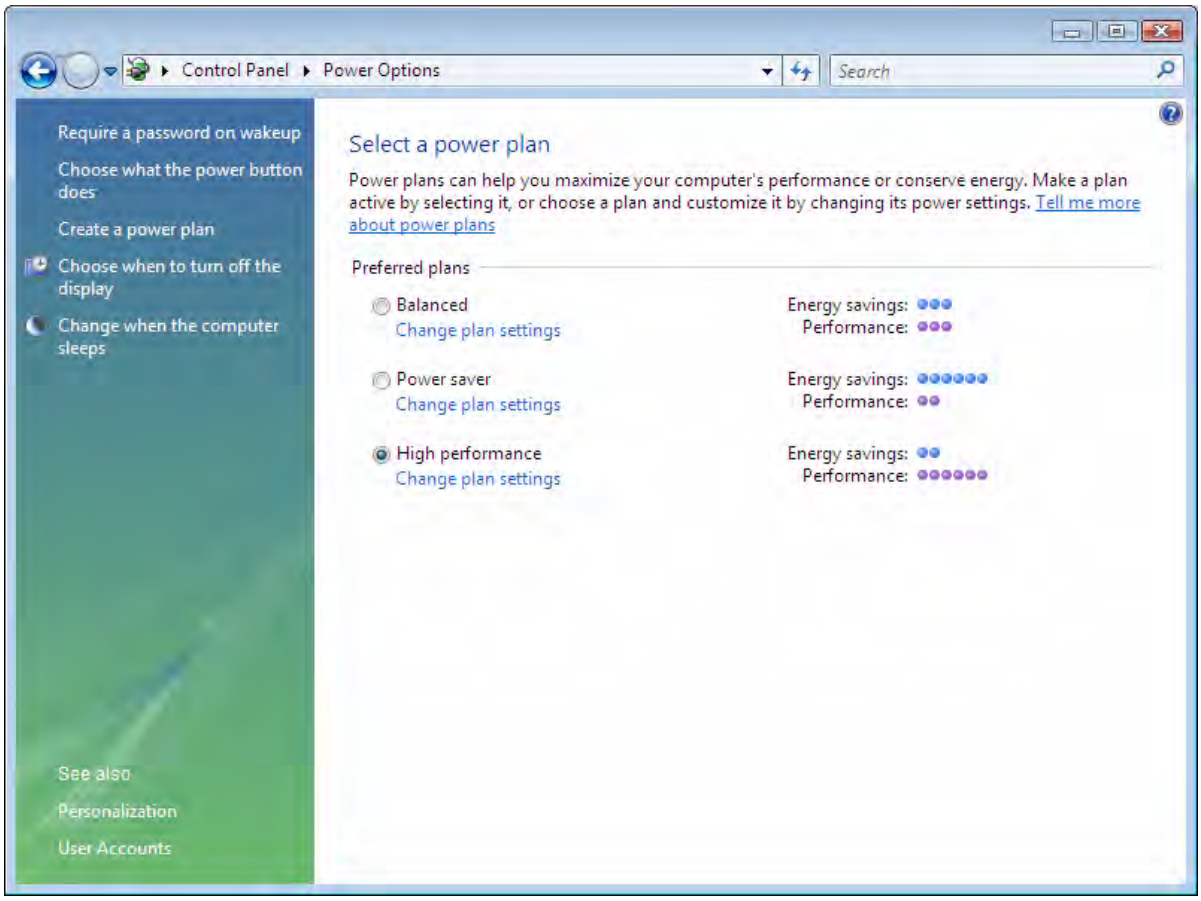
Pic. 39

Select "**Driver**" and check that the installed version is the 2.0.0.0 one. If yes, click "**OK**" to come back to the previous display. Now the Hub usb and the trademark of the usb ports are displayed.

With reference to the trademarks of the usb ports, the certified ones for a proper operation of the sensor without the power supply device are the Intel and Via Tech, in case of Alì , Open or Sys ports, maybe the sensor must be used connected to the power supply device.
Now close all the opened windows and go back the control panel function illustrated in the first page of this manual.
Select "**Power options**".

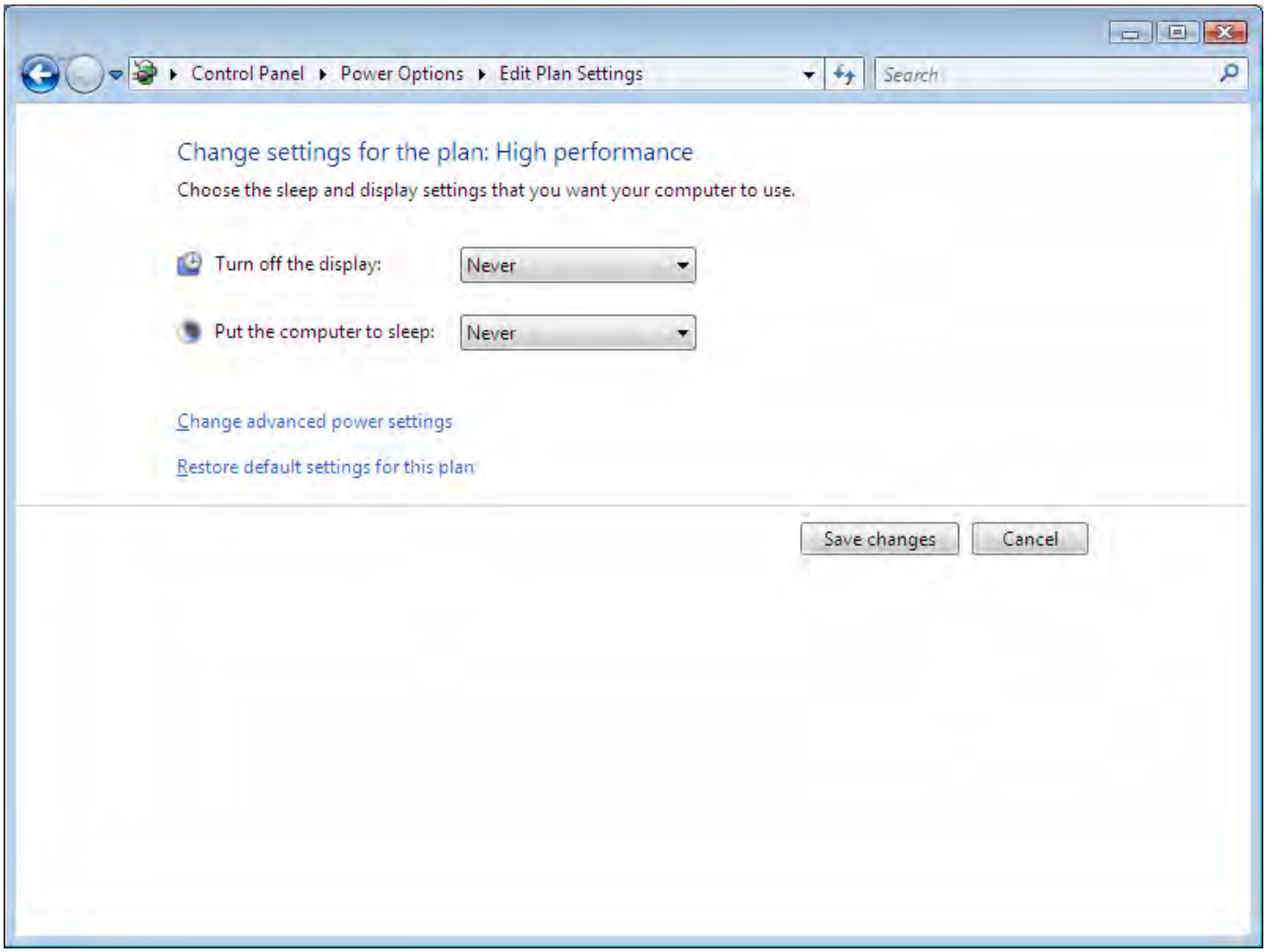
Pic. 40

In the following display, select "**Change plan settings**".


Control Panel ▸ Power Options
Search
Require a password on wakeup
Choose what the power button does
Create a power plan
Choose when to turn off the display
Change when the computer sleeps
Select a power plan
Power plans can help you maximize your computer's performance or conserve energy. Make a plan active by selecting it, or choose a plan and customize it by changing its power settings. Tell me more about power plans
Preferred plans
Balanced
Change plan settings
Energy savings:
Performance:
Power saver
Change plan settings
Energy savings:
Performance:
High performance
Change plan settings
Energy savings:
Performance:
See also
Personalization
User Accounts

Pic. 41

Now select the item highlighted **never** and then click on "**Save changes**".


Control Panel ▸ Power Options ▸ Edit Plan Settings
Search
Change settings for the plan: High performance
Choose the sleep and display settings that you want your computer to use.
Turn off the display:
Never
Put the computer to sleep:
Never
Change advanced power settings
Restore default settings for this plan
Save changes
Cancel

Pic. 42

The operative system configuration for the correct sensor operation now is completed.

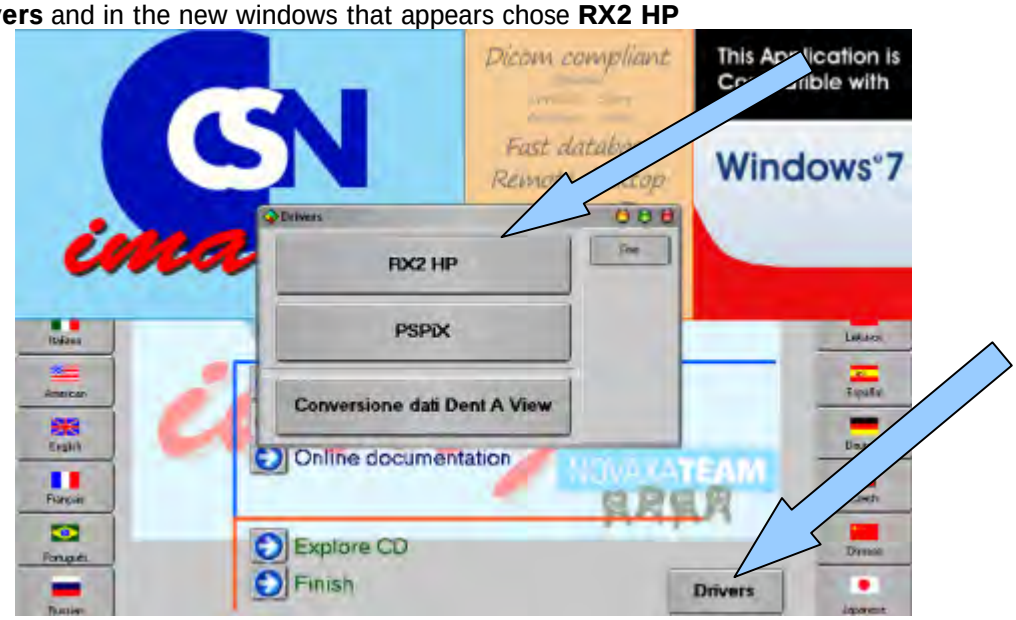
7. RX2 HP HARDWARE INSTALLATION with WINDOWS 7 - 32 o 64 bit

(Some windows may be different if you use a PC or a laptop)

For all the Operative Systems 32 or 64bit the installation procedure is the same.
If the CD ROM of CSNImage program is still inserted in the player, you should start the **Setup** from the same CD, otherwise, insert the CD into the player and wait for the window below to appear.

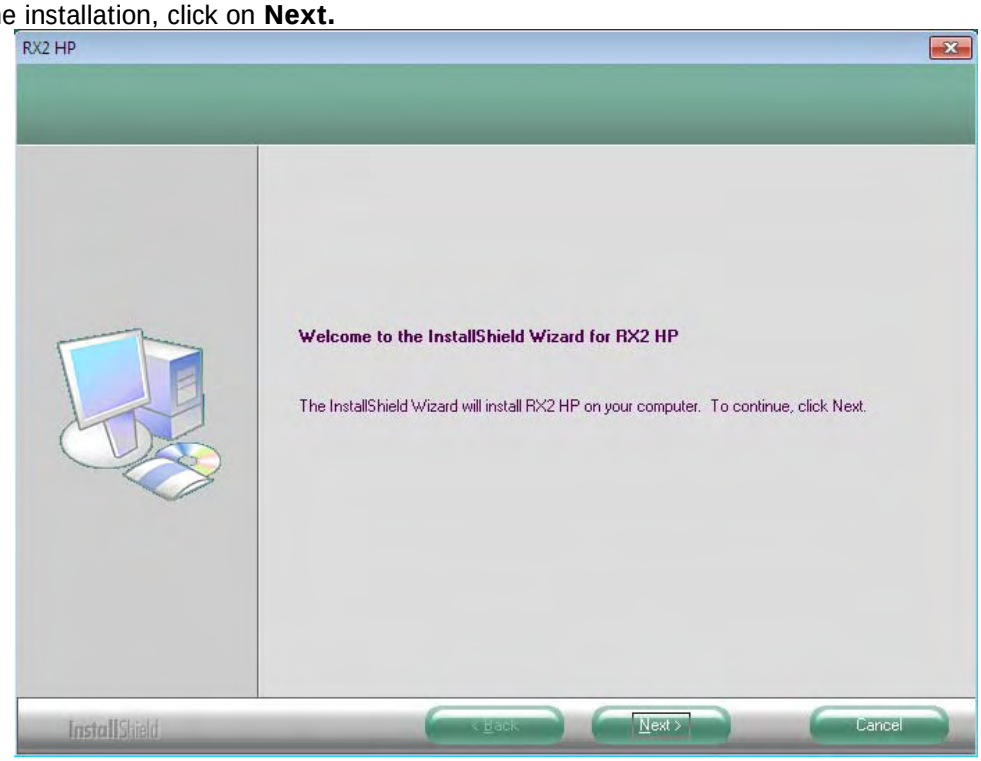
Pic. .43

Then click on **Drivers** and in the new windows that appears chose **RX2 HP**



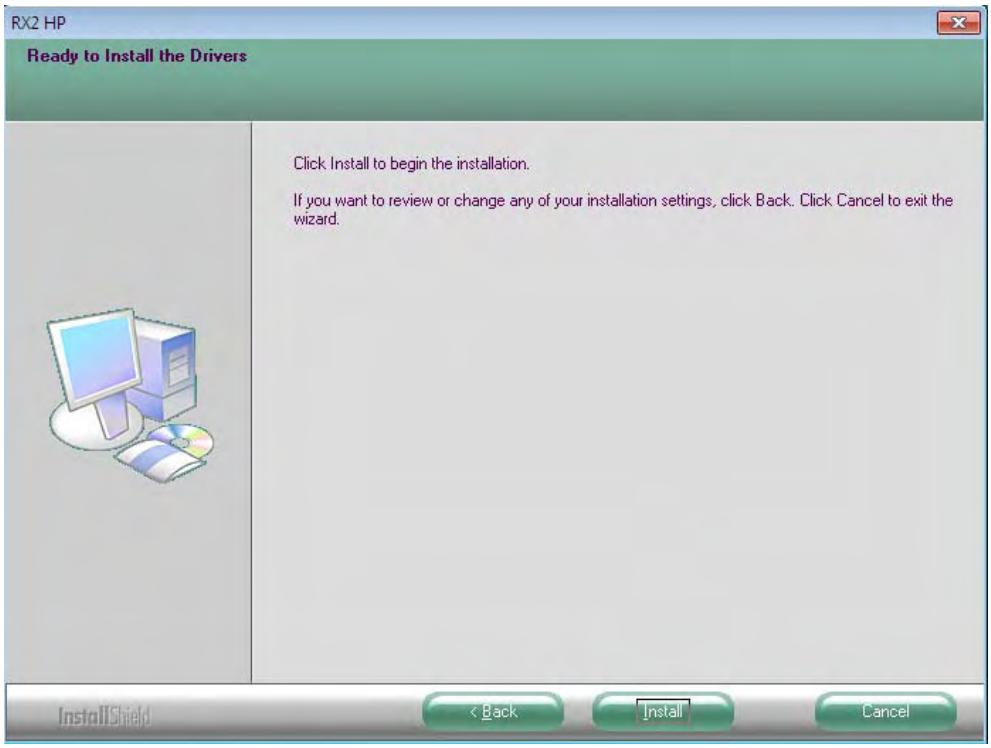
Pic. .44

At the end of the installation, click on **Next.**


RX2 HP
Welcome to the InstallShield Wizard for RX2 HP
The InstallShield Wizard will install RX2 HP on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

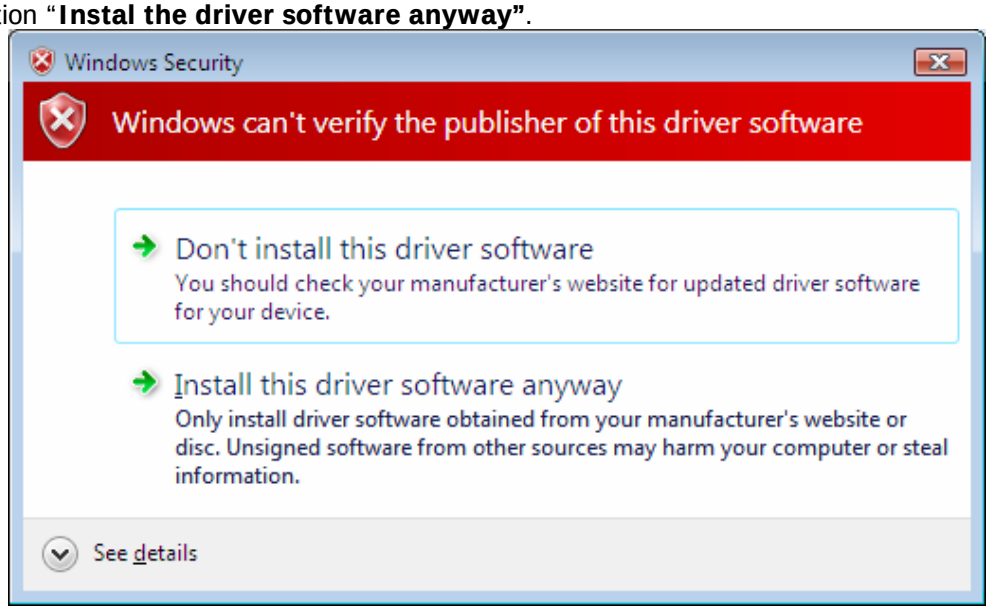
Pic. 45

and then on **Install.**


RX2 HP
Ready to Install the Drivers
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

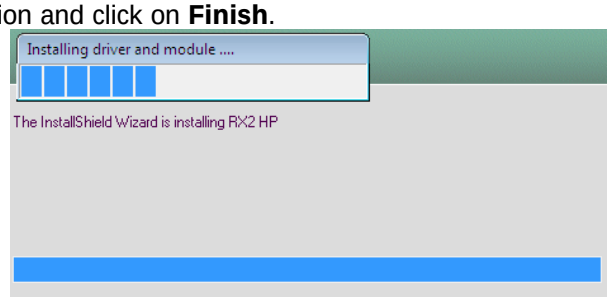
Pic. 46

A new window will appear where Windows informs that the sensor driver is not cerified
Chose the function "**Instal the driver software anyway"**.

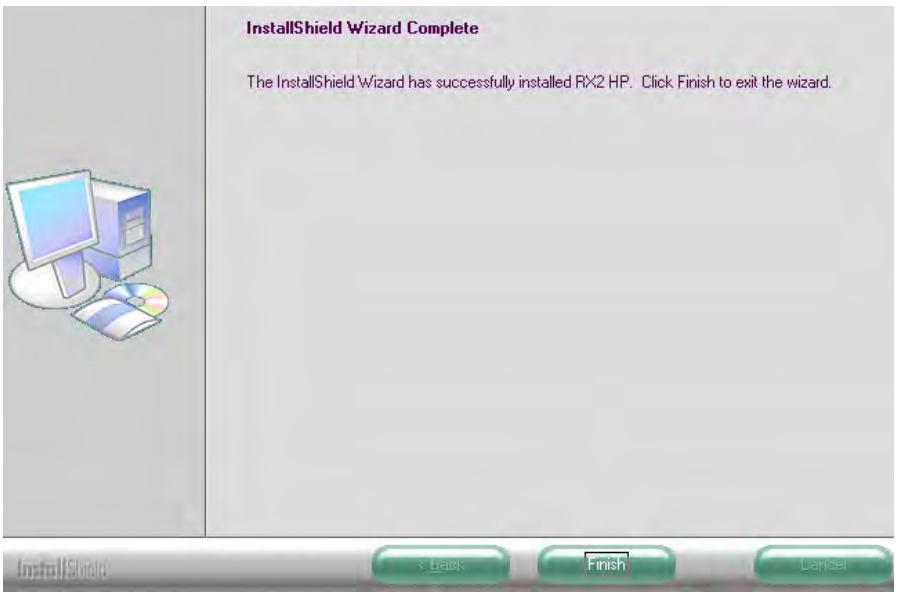

Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
See details

Pic. 47

Wait for the end of the installation and click on **Finish**.

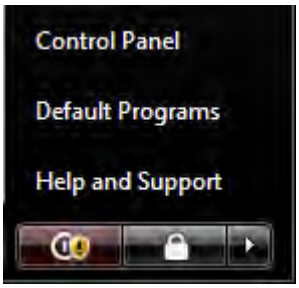


Pic. 48



Pic. 49

Now a message will appear, confirming the successful sensor installation.
Once the sensor drivers have been loaded, you must configurate your Operative System to optimize the Sensor RX2HP functioning.
Clicking on "**Start**" button, activate the function "**Control panel**" (pic.50) then click on "**System".** (pic.52) *If the item doesn't appear, click on* ***Switch to Category*** **View** (pic.51) and select "**View small icons**".



Pic. 50

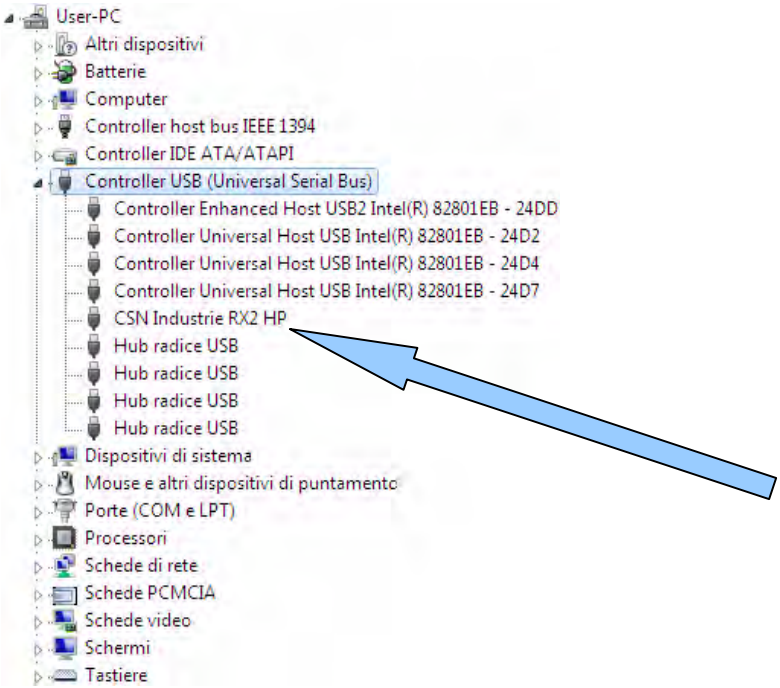
Pic. 51

Pic. 52

After selecting "**System**", please select "**Device manager**".

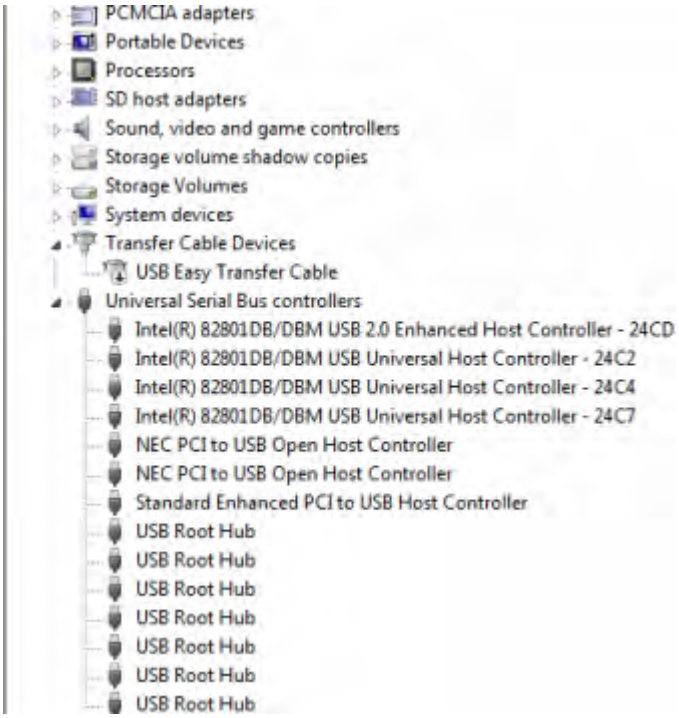
Pic. 53

Now a new window with will appear, within the item **Controller USB (Universal serial bus**) with a new category named **CSN Industrie RX2 HP** (pic.54)
(if the item is highlighted by a yellow question mark, the driver is not correctly loaded, install it again following the sensor Installation manual).



Pic. 54

From the menu "**Peripheric Managing**" select the arrow you find on the left of the item **Controller USB** (Universal Serial Bus), so you can see new items. (pic. 55)


PCMCIA adapters
Portable Devices
Processors
SD host adapters
Sound, video and game controllers
Storage volume shadow copies
Storage Volumes
System devices
Transfer Cable Devices
USB Easy Transfer Cable
Universal Serial Bus controllers
Intel(R) 82801DB/DBM USB 2.0 Enhanced Host Controller - 24CD
Intel(R) 82801DB/DBM USB Universal Host Controller - 24C2
Intel(R) 82801DB/DBM USB Universal Host Controller - 24C4
Intel(R) 82801DB/DBM USB Universal Host Controller - 24C7
NEC PCI to USB Open Host Controller
NEC PCI to USB Open Host Controller
Standard Enhanced PCI to USB Host Controller
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub

Pic .55

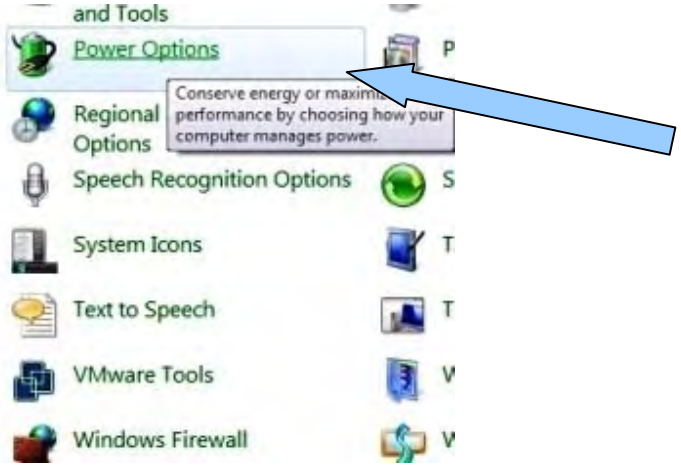
Now the Hub usb and the trademark of the usb ports are displayed.

With reference to the trademarks of the usb ports, the certified ones for a proper operation of the sensor without the power supply device are the Intel and Via Tech, in case of Alì , Open or Sys ports, maybe the sensor must be used connected to the power supply device.
Within the items, the item **USB root Hub** will be displayed more than once, double click on this item and select **Power Management**.

In the following display, select **Allow the computer to swich the peripheric device to save power** than click OK. (pic. 56)
Repeat the operation on all items **Usb root Hub**.

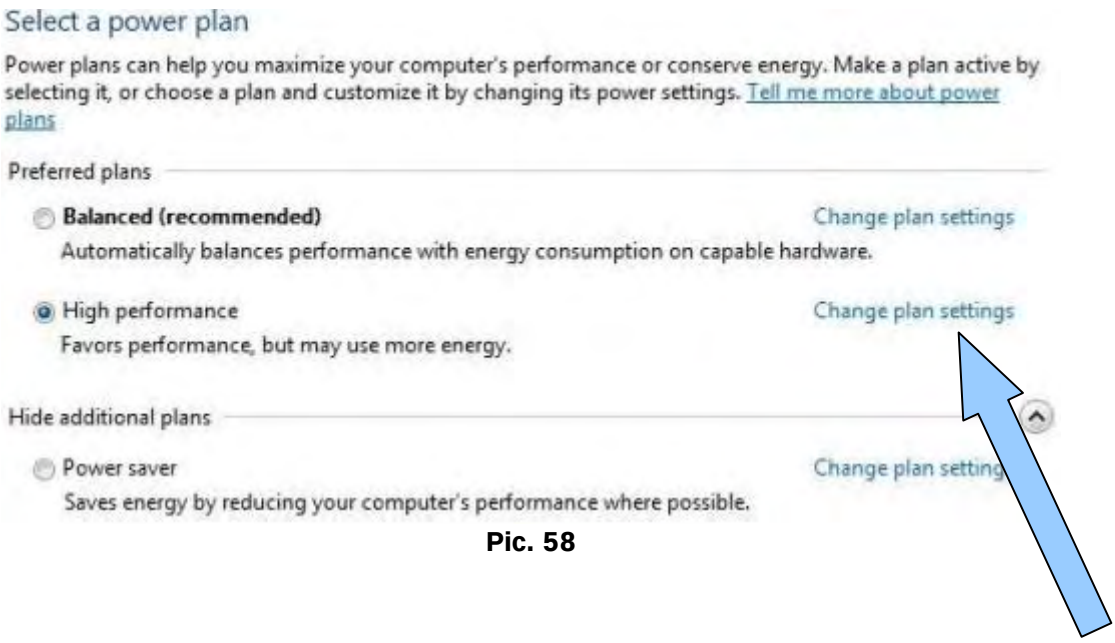
Pic. 56

Now close all the opened windows and go back to the "**Panel control"** described in the first section of the manual. Select "**Power Options** (pic. 57)



Pic. 57

In the next window click on su **Option combination**, to display the combination High performances.


Select a power plan
Power plans can help you maximize your computer's performance or conserve energy. Make a plan active by selecting it, or choose a plan and customize it by changing its power settings. Tell me more about power plans
Preferred plans
Balanced (recommended)
Change plan settings
Automatically balances performance with energy consumption on capable hardware.
High performance
Change plan settings
Favors performance, but may use more energy.
Hide additional plans
Power saver
Change plan setting
Saves energy by reducing your computer's performance where possible.

Pic. 58

Then select **High Performances** and click on **Change plan settings**.

Now selec **Never** in the highlighted items and press **Save changes**

Pic. 59

The operative system configuration for the correct sensor operation now is completed.

8. RX2 HP CONFIGURATION AND USE

Click on "**Start**", then "**Programs**", "**CSN Image**" and then "**CSN Image**" again to run the program (or click twices on "**CSN Image**" icon on the desktop).

Pic. 60

At the first run the program will show a window of first installation regarding the destination disk for the archives; click on "**OK**" and wait.

Information
Non è stato selezionato nessun drive! Sarà utilizzato il disco di avvio del programma come disco dati principale!
No database was selected! The program will use the starting drive as default database!
OK

Pic. 61

Now the software will ask you to select your language for the software start (not all the languages indicated are available; in case of a language not available, the software will automatically start in English). Click on "**OK**" to go with the installation.

Pic. 62

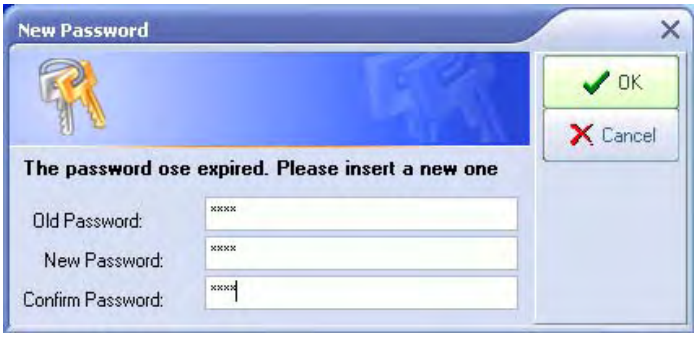
Immediately afterwards another window will appear, regarding the finally directory of the patient and images archives; click on "**Yes**" and wait.

Pic. 63

After this operation, an access verification window appears. Select "**Admin**" user and insert the default password **12345678**.

Pic. 64

Now, a new window asks you to edit a new password and then click on "**OK**".



Pic. 65

Edit again the new password and click on "**Ok**".

After the password editing, the software informs it is necessary to follow the software registration procedure. Click on **OK** in the demo reminder window.

Information
The application will work 49 times.
Remember to activate it before expiration!
The application will work for 60 minutes.
OK

Pic. 66

IMPORTANT: NOTICE FOR REGISTRATION OF THE PROGRAMM.

When you have finished the installation of the program, you need to activate the software.
For the activation of the software you need to connect the sensor to the computer, and charge the driver of the sensor (previus chapter)

When you have click on the **OK** button appears a new windows where you must write the name of the doctor (in the first row) and the address of the dental cabinet (second row) will appear.

Activation procedure.
Activation procedure.
Cancel
1) Insert the licence name and address
You can't change anymore the licence name after the software activation.
User:
name of the doctor
adress of the dental cabinet
2) Connect the RVG device to this computer.
If you didn't install the device yet, please cancel the activation procedure now and install the RVG device.
Insert the installation CD in your CD ROM reader and stop the installation procedure from the CD.
Connect the RVG device to the USB as indicated in the reference book.
Install all drivers for the RVG device from the installation CD. Please don't stop the installation procedure.
When Windows will show that the new hardware is properly installed, you can start with the software activation.
3) Click on the following button to activate the software.
RX2 HP

Pic. 67

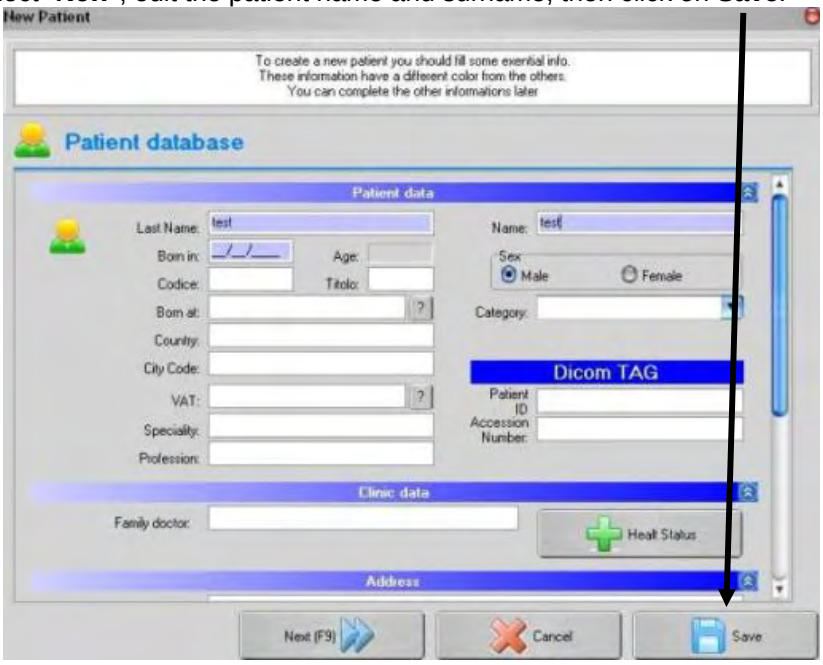
If the sensor is connected to the computer, and the driver is charged click on the Rx2 HP button to activate the license.
If the activation process is done a new window, with the successfully activation appears.
Click **OK** and the software is unlocked.

Pic. 68

From the Main menu, select the **Patient** function on the left side.

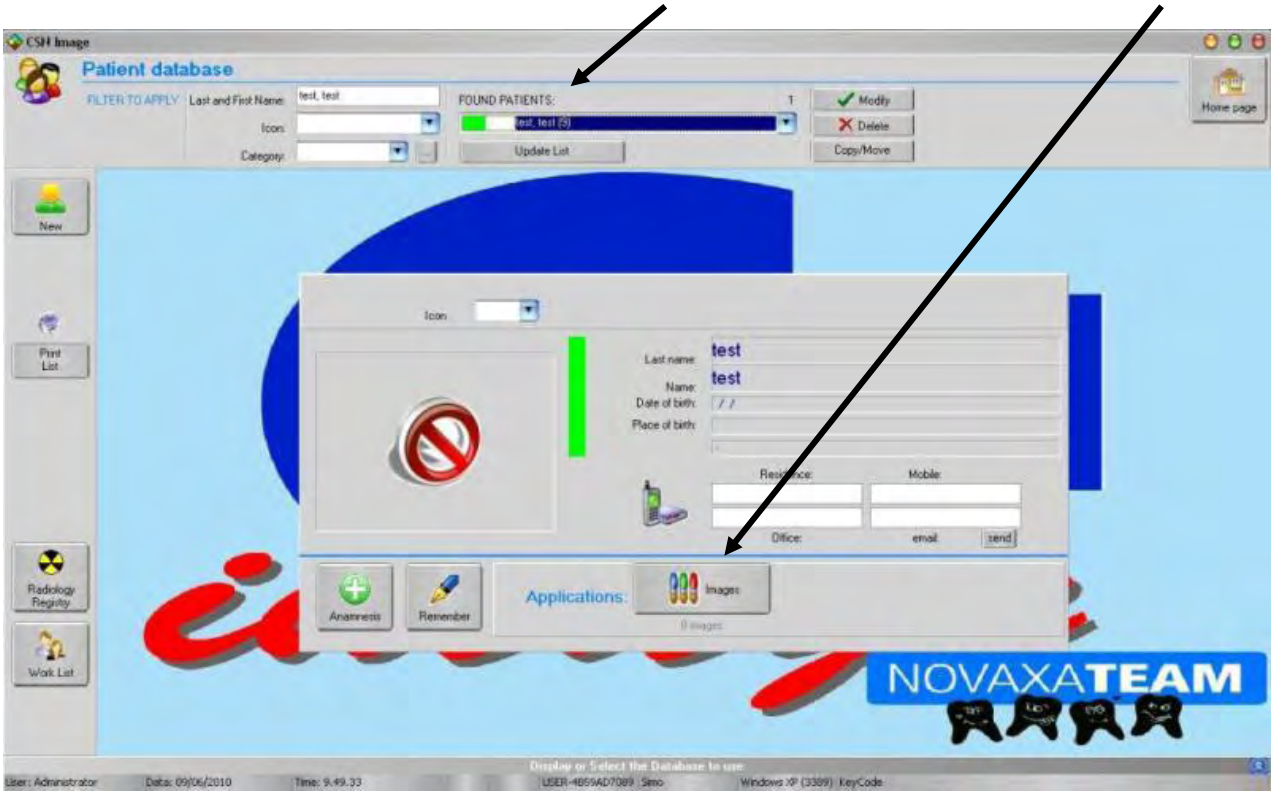
Pic. 69

In this new window, select "**New**"; edit the patient name and surname; then click on **Save**.



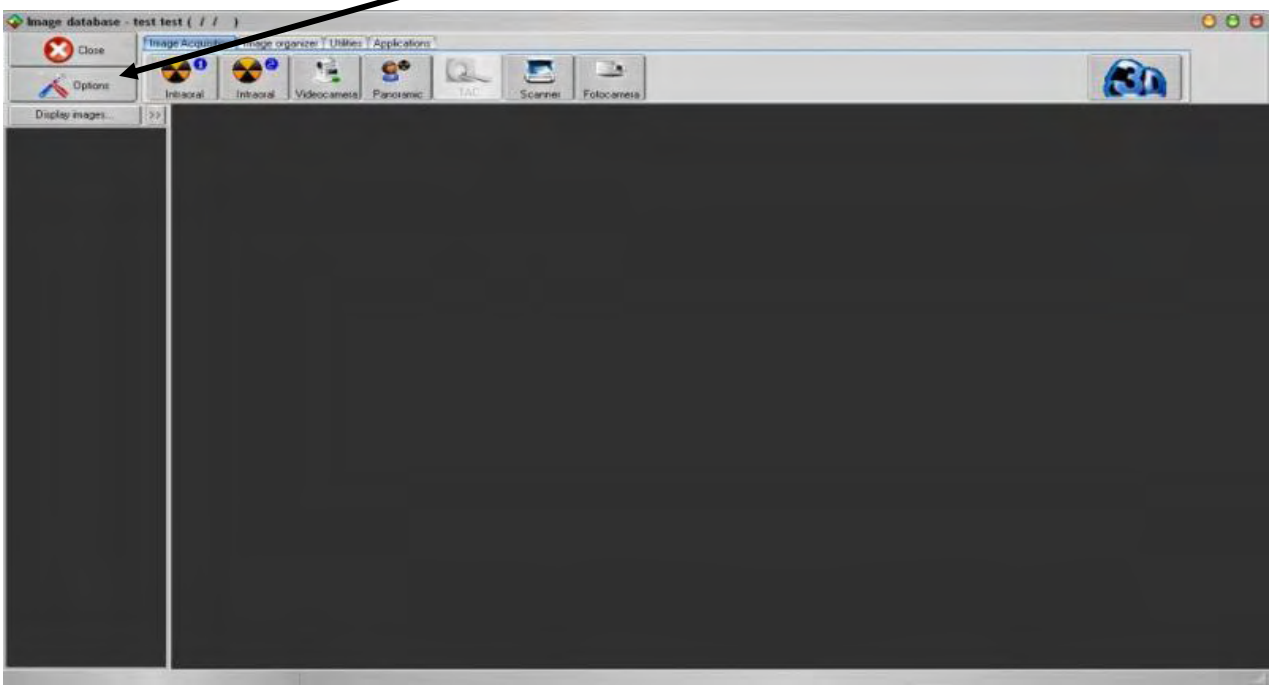
Pic. 70

After the patient registration, it is necessary to select the "**Founded Patient**" function and then click on "**Images**".



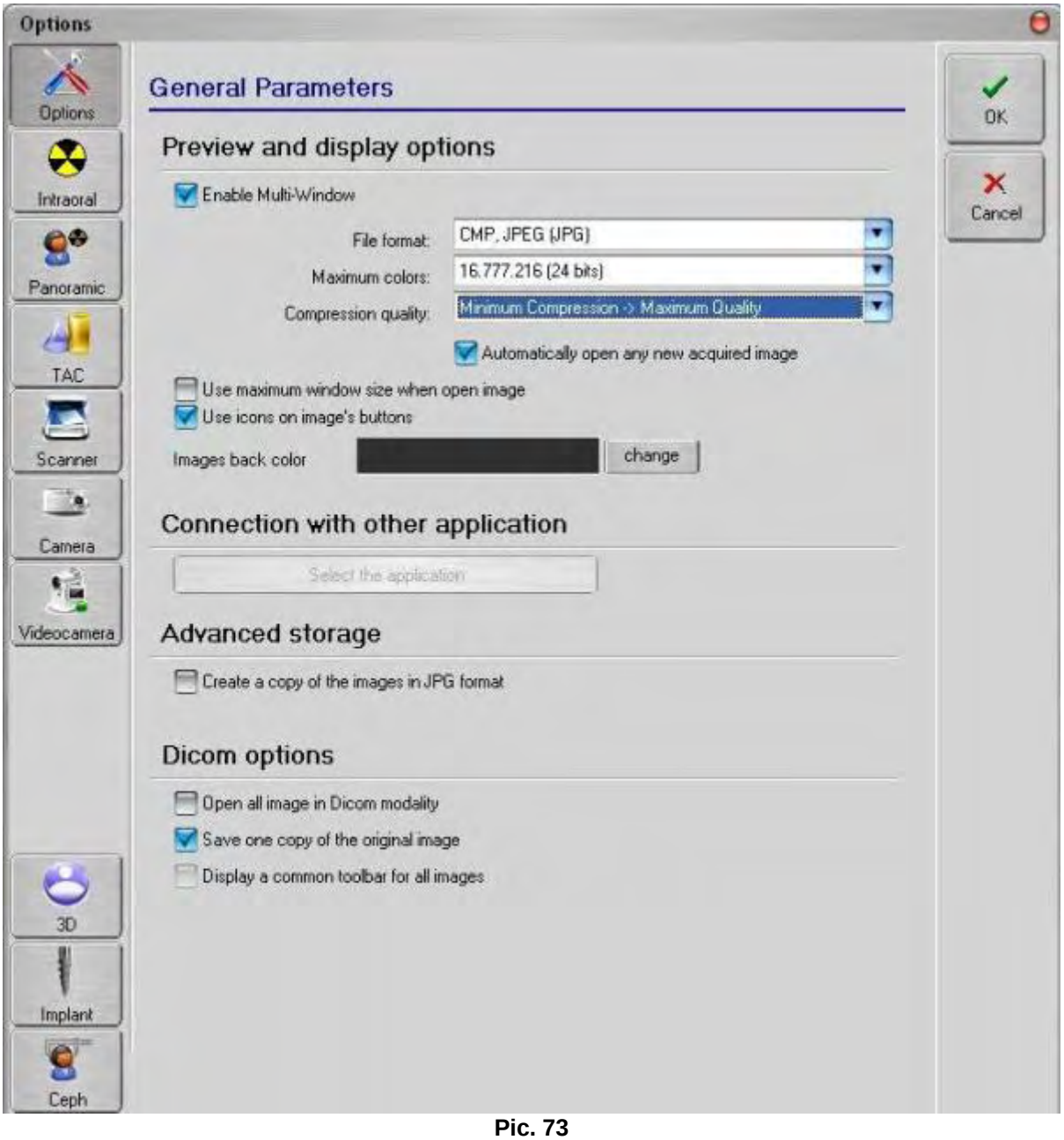
Pic. 71

Now we're ready to configure the RX2 HP sensor in the program.
From the new window please select the "**Options**" function on the left corner of this screen view.



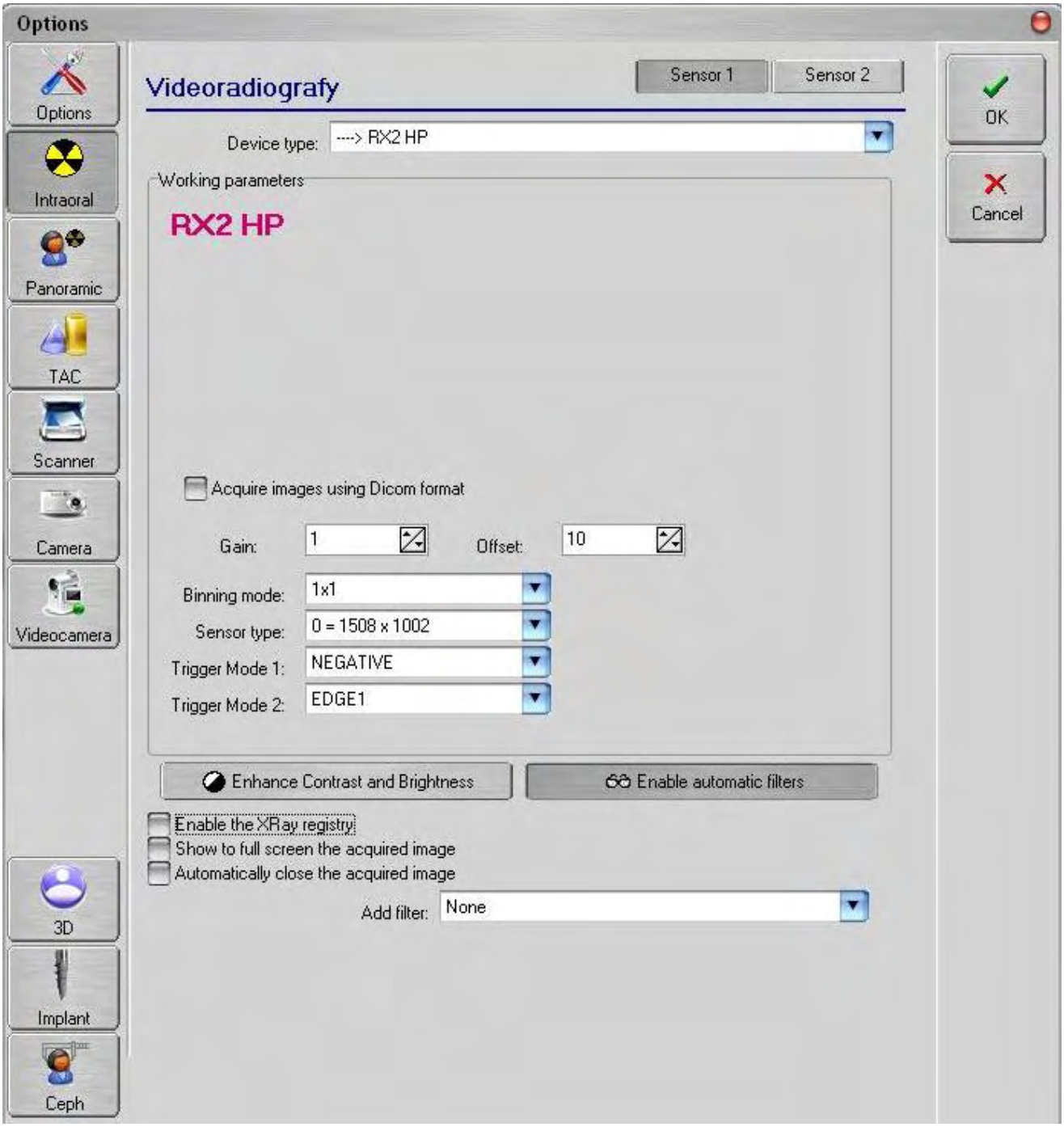
Pic. 72

In the new window, in “**Options**” category select in “**File format**” the item “**CMP, JPEG (JPG)**” and in “**Maximum colors**” “**16.777.216 (24 bits)**”.



Pic. 73

Then click on “**Intraoral**” function.
Select the “**RX2 HP**” sensor, new functions in the lower part of the display will automatically appear and one of these is “**Trigger mode 2: EDGE 1**”.
Click on this field and select an other item (for example INT) and then select again ”**EDGE 1**”.
On the right of EDGE 1, a window previously hidden will appear, in which the sensor preheating will be highlighted (the default value to be used with the Max 70 HF/DC x-ray unit is 900). In case of a different x-ray unit, set that value on 0 in order to make the acquisition coherent with the set time on the x-ray unit.



Pic. 74

Always in this function, select the "**Enable automatic filters**" button, and in this menu select: in filter 1 **Average**, in filter 2 **None** and in filter 3 **None**, and then click on "**OK**".

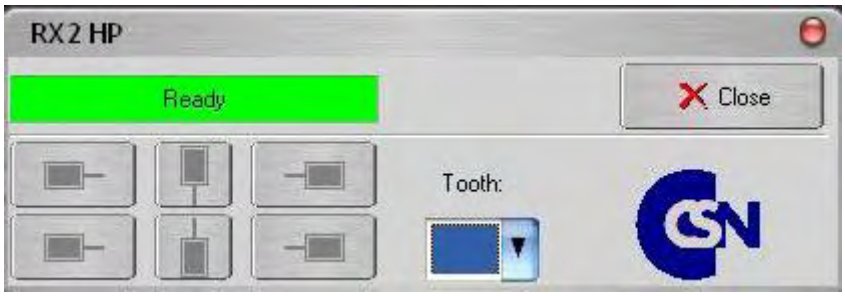
Pic. 75

If you want to apply an automatic filtering to the image, in the field "**Add filter**" select 3D effect, or other.

Back to the Main menu, click on "**Intraoral**", on the upper bar of that window.

Pic. 76

In the lower left part of the screen, the sensor mode window appears. A red light indicates that the sensor isn't connected or the drivers aren't correctly installed. A green light indicates the system is ready to acquire the X-Ray.



Pic. 77

Now the sensor is correctly configured both in the CSN Image software and in the operative system.
All the listed operations have been performed with software CSN Image version 3 service pack 10 rev 2.
All the software users with an older version are kindly invited to download the updating for the website www.archimed.org.

For the program instructions, please refer to the "User Manual" enclosed in the installation CD-ROM packaging.